

THE ASTROPHYSICAL JOURNAL
CONTENTS OF VOLUME 147

2003 JULY NUMBER 1

	<i>Page</i>
THE RELATIONSHIP BETWEEN STELLAR LIGHT DISTRIBUTIONS OF GALAXIES AND THEIR FORMATION HISTORIES <i>Christopher J. Conselice</i>	1
PALOMAR/LAS CAMPANAS IMAGING ATLAS OF BLUE COMPACT DWARF GALAXIES. I. IMAGES AND INTEGRATED PHOTOMETRY © <i>A. Gil de Paz, B. F. Madore, & O. Pevunova</i>	29
HIGH-RESOLUTION OBSERVATIONS OF INTERSTELLAR Ca I ABSORPTION—IMPLICATIONS FOR DEPLETIONS AND ELECTRON DENSITIES IN DIFFUSE CLOUDS <i>Daniel E. Welty, L. M. Hobbs, & Donald C. Morton</i>	61
BROAD H α WINGS IN NEBULAE AROUND EVOLVED STARS AND IN YOUNG PLANETARY NEBULAE <i>A. Arrieta & S. Torres-Peimbert</i>	97
THE NATURE OF OVERLUMINOUS F STARS OBSERVED IN A RADIAL-VELOCITY SURVEY <i>R. F. Griffin & A. A. Suchkov</i>	103
AN ARCHIVE OF IUE LOW-DISPERSION SPECTRA OF THE WHITE DWARF STARS <i>J. B. Holberg, M. A. Barstow, & M. R. Burleigh</i>	145
MITIGATION OF RADAR INTERFERENCE IN L-BAND RADIO ASTRONOMY <i>S. W. Ellingson & G. A. Hampson</i>	167
COSMOS: A RADIATION-CHEMO-HYDRODYNAMICS CODE FOR ASTROPHYSICAL PROBLEMS <i>Peter Anninos, P. Chris Fragile, & Stephen D. Murray</i>	177
THE NUMERICAL SIMULATION OF RADIATIVE SHOCKS. I. THE ELIMINATION OF NUMERICAL SHOCK INSTABILITIES USING A LOCAL OSCILLATION FILTER <i>Ralph S. Sutherland, David K. Bisset, & Geoffrey V. Bicknell</i>	187
BEYOND FLUX-LIMITED DIFFUSION: PARALLEL ALGORITHMS FOR MULTIDIMENSIONAL RADIATION HYDRODYNAMICS <i>John C. Hayes & Michael L. Norman</i>	197
ADDENDUM: "OPTICAL AND NEAR-INFRARED IMAGING OF THE IRAS 1 JY SAMPLE OF ULTRALUMINOUS INFRARED GALAXIES. I. THE ATLAS" (ApJS, 143, 277 [2002]) <i>D.-C. Kim, S. Veilleux, & D. B. Sanders</i>	221
ADDENDUM: "OPTICAL AND NEAR-INFRARED IMAGING OF THE IRAS 1 Jy SAMPLE OF ULTRALUMINOUS INFRARED GALAXIES. II. THE ANALYSIS" (ApJS, 143, 315 [2002]) <i>S. Veilleux, D.-C. Kim, & D. B. Sanders</i>	223
ERRATUM: "A GRID OF NON-LTE LINE-BLANKETED MODEL ATMOSPHERES OF O-TYPE STARS" (ApJS, 146, 417 [2003]) <i>Thierry Lanz & Ivan Hubeny</i>	225

2003 AUGUST NUMBER 2

THE ESI/KECK II DAMPED Ly α ABUNDANCE DATABASE © <i>Jason X. Prochaska, Eric Gawiser, Arthur M. Wolfe, Jeff Cooke, & Dawn Gelino</i>	227
THE COMPLETE FAR ULTRAVIOLET SPECTROSCOPIC EXPLORER SPECTRUM OF THE SMALL MAGELLANIC CLOUD STAR Sk 108 <i>Christoforos Mallouris</i>	265
AN IUE ATLAS OF PRE-MAIN-SEQUENCE STARS. III. CO-ADDED FINAL ARCHIVE SPECTRA FROM THE LONG-WAVELENGTH CAMERAS © <i>Jeff A. Valenti, Adam A. Fallon, & Christopher M. Johns-Krull</i>	305
STATISTICAL ANALYSIS OF 5 YEAR CONTINUOUS RADIO FLARE DATA FROM β PERSEI, γ TAURI, δ LIBRAE, AND UX ARIETIS <i>Mercedes T. Richards, Elizabeth B. Waltman, Frank D. Ghigo, & Donald St. P. Richards</i>	337

NON-LTE MODEL ATMOSPHERES FOR LATE-TYPE STARS. I. A COLLECTION OF DATA FOR LIGHT NEUTRAL AND SINGLY IONIZED ATOMS <i>Carlos Allende Prieto, David L. Lambert, Ivan Hubeny, & Thierry Lanz</i>	363
SYMMETRICAL CHEMI-IONIZATION AND CHEMI-RECOMBINATION PROCESSES IN LOW-TEMPERATURE LAYERS OF HELIUM-RICH DB WHITE DWARF ATMOSPHERES <i>A. A. Mihajlov, Lj. M. Ignjatović, M. S. Dimitrijević, & Z. Djurić</i>	369
A UNIFORM DATABASE OF 2.4-45.4 MICRON SPECTRA FROM THE INFRARED SPACE OBSERVATORY SHORT WAVELENGTH SPECTROMETER <i>G. C. Sloan, Kathleen E. Kraemer, Stephan D. Price, & Russell F. Shipman</i>	379
NUCLEAR PARTITION FUNCTIONS AT TEMPERATURES EXCEEDING 10^{10} K © <i>T. Rauscher</i>	403
ATOMIC DATA AND SPECTRAL LINE INTENSITIES FOR S x © <i>A. K. Bhatia & E. Landi</i>	409
DIELECTRONIC RECOMBINATION OF Fe XXI AND Fe XXII VIA $N = 2 \rightarrow N' = 2$ CORE EXCITATIONS <i>D. W. Savin, S. M. Kahn, G. Gwinner, M. Grieser, R. Repnow, G. Saathoff, D. Schwalm, A. Wolf, A. Müller, S. Schippers, P. A. Zavadzky, M. H. Chen, T. W. Gorczyca, O. Zatsarinny, & M. F. Gu</i>	421
INDEX	i

